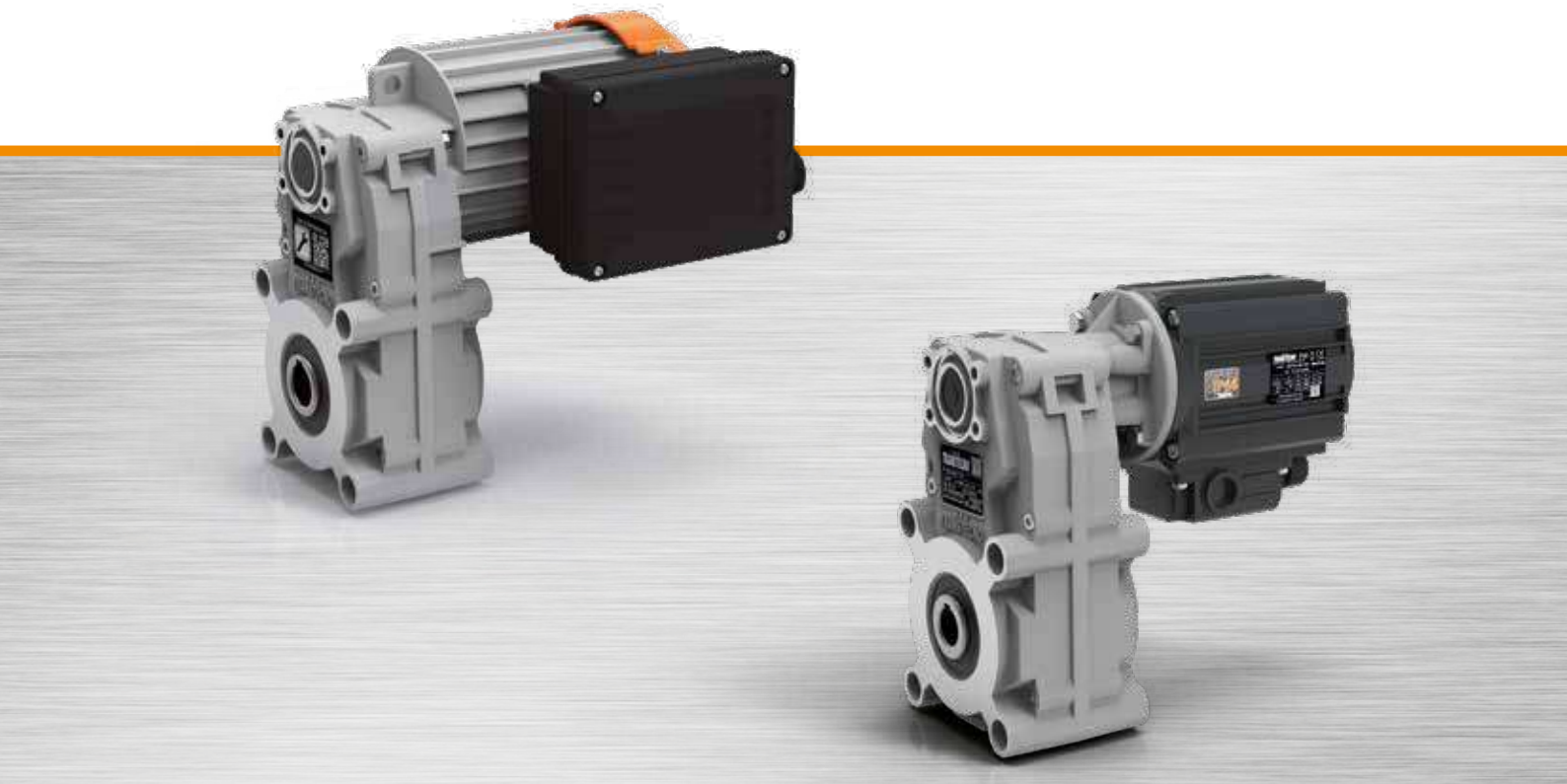
TRANSTECNO®
the modular gearmotor

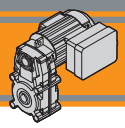
KFT105

KFT105

KFT105 Alù

Motoriduttori pendolari
Helical parallel gearmotors





ENERGY SAVING

Caratteristiche tecniche

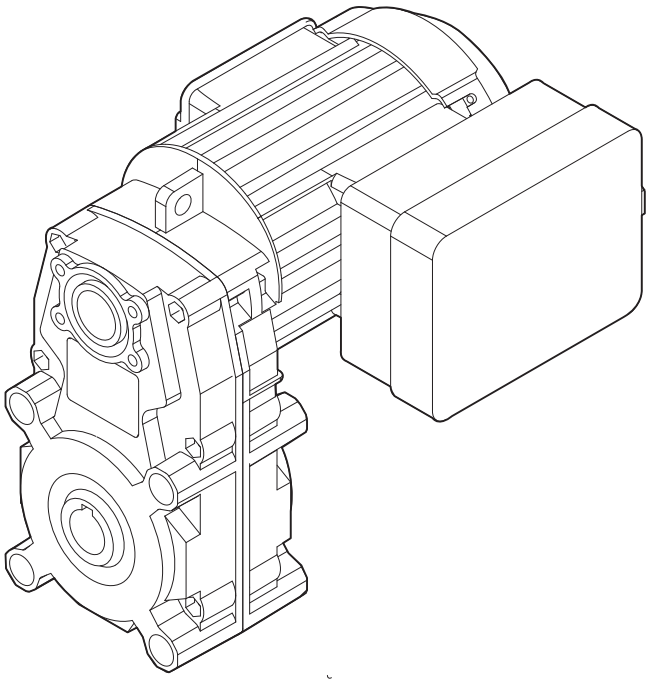
Technical features

I motoriduttori pendolari della serie KFT105 hanno le seguenti caratteristiche principali:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa in pressofusione di alluminio
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Lubrificazione permanente con olio sintetico
- Disponibili a 3 e 4 stadi di riduzione

KFT105 helical parallel gearmotors range has the following main features:

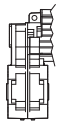
- *Compact design*
- *AC single phase and three phase motors available*
- *Die-cast aluminium housings*
- *Ground-hardened helical gears*
- *Permanent synthetic oil long-life lubrication*
- *Available with 3 and 4 reduction stages*



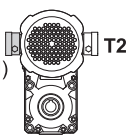
Designazione

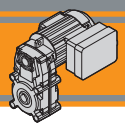
Classification

RIDUTTORE / *GEARBOX*

KFT	105/3	U	88.87	O20
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*
KFT 	**105/3** **105/4**	**U...** **F...**	vedi tabelle *see tables*	vedi tabelle *see tables*

MOTORE / *MOTOR*

40W	4p	3ph	230/400V	50Hz	T1	TEFC
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*	Ventilazione *Fan cooling*
vedi tabelle *see tables*	**2p** **4p** **6p**	**1ph** **3ph**	**230V** **...** **230/400V** **...**	**50Hz** **60Hz**	**T4** (Std) **T2** 	**TEFC** **TENV**



Simbologia — *Symbols*

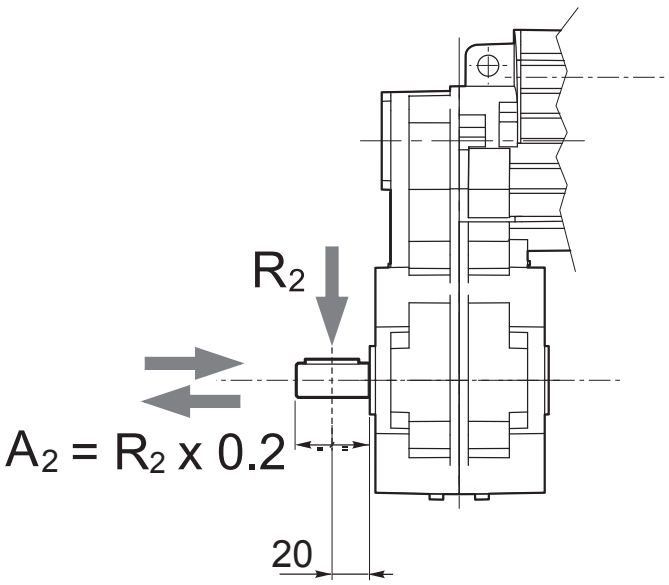
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to P_1*
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn	[Nm]	Coppia nominale / *Nominal torque*
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
V	[N]	Tensione / *Voltage*
F	[Hz]	Frequenza / *Frequency*
I_n	[A]	Corrente nominale / *Nominal current*
I_s	[A]	Corrente di spunto / *Start current*
cosØ		Fattore di potenza / *Power factor*
C	[µ]	Capacità del condensatore / *Capacitor*

Lubrificazione — *Lubrication*

Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

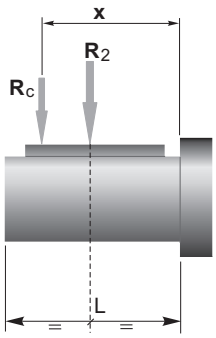
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]
	KFT105
70	1500
40	1700
30	1850
20	2000
10	2000
5	2000

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



	KFT105
a	82
b	62
R_{2MAX}	2000

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table

Dati tecnici

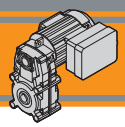
Technical data

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
25						
	68	3	12.1	40	20.57	**KFT105/3**
	42	5	9.4	50	33.32	
	32	7	9.1	65	44.36	
	26	9	7.4	65	54.87	
	19	12	5.6	65	71.84	
	18	12	5.3	65	77.07	
	16	14	4.6	65	88.87	
	11	20	3.2	65	124.81	
	7.7	29	2.2	65	181.35	
	6.2	36	1.8	65	224.32	
	4.4	51	1.3	65	315.05	
	3.8	58	1.1	65	368.19	**KFT105/4**
	2.6	84	0.8	65	534.98	
	2.1	92	0.7	65	661.76	
	1.5	92	0.7	65	929.40	
40						
	68	5	7.6	40	20.57	**KFT105/3**
	42	9	5.9	50	33.32	
	32	11	5.7	65	44.36	
	26	14	4.6	65	54.87	
	19	18	3.5	65	71.84	
	18	20	3.3	65	77.07	
	16	23	2.9	65	88.87	
	11	32	2.0	65	124.81	
	7.7	47	1.4	65	181.35	
	6.2	58	1.1	65	224.32	
	4.4	81	0.8	65	315.05	
	3.8	92	0.7	65	368.19	**KFT105/4**
	2.6	92	0.7	65	534.98	
60						
	68	8	5.1	40	20.57	**KFT105/3**
	42	13	3.9	50	33.32	
	32	17	3.8	65	44.36	
	26	21	3.1	65	54.87	
	19	28	2.4	65	71.84	
	18	30	2.2	65	77.07	
	16	34	1.9	65	88.87	
	11	48	1.4	65	124.81	
	7.7	70	0.9	65	181.35	
	6.2	86	0.8	65	224.32	
	4.4	92	0.7	65	315.05	

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
90						
	68	12	3.4	40	20.57	**KFT105/3**
	42	19	2.6	50	33.32	
	32	26	2.5	65	44.36	
	26	32	2.1	65	54.87	
	19	41	1.6	65	71.84	
	18	44	1.5	65	77.07	
	16	51	1.3	65	88.87	
	11	72	0.9	65	124.81	
	7.7	92	0.7	65	181.35	
	6.2	92	0.7	65	224.32	
120						
	68	16	2.5	40	20.57	**KFT105/3**
	42	26	2.0	50	33.32	
	32	34	1.9	65	44.36	
	26	42	1.5	65	54.87	
	19	55	1.2	65	71.84	
	18	59	1.1	65	77.07	
	16	68	1.0	65	88.87	
	11	92	0.7	65	124.81	

N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas



Dati tecnici elettrici

Electrical technical data

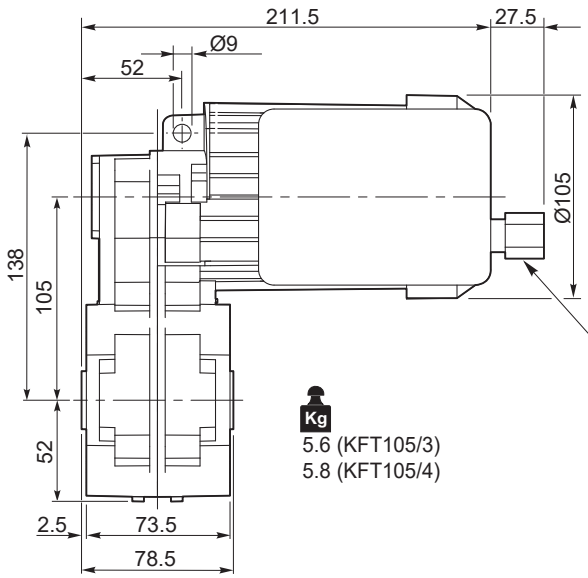
	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ	C [µF]
1 Ph	25	230	50	0.42	0.84	0.87	6.0
	40			0.47	0.86	0.91	6.3
	60			0.74	1.50	0.82	8.0
	90			0.82	1.60	0.93	12.5
	120			1.38	3.10	0.81	14.0

	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ
3 Ph	25	230	50	0.41	0.97	0.54
		400		0.24	0.56	0.54
	40	230	50	0.43	0.97	0.62
		400		0.25	0.56	0.62
	60	230	50	0.72	1.80	0.48
		400		0.42	1.04	0.48
	90	230	50	0.74	1.80	0.60
		400		0.44	1.04	0.60
	120	230	50	1.34	3.70	0.50
		400		0.87	2.13	0.50

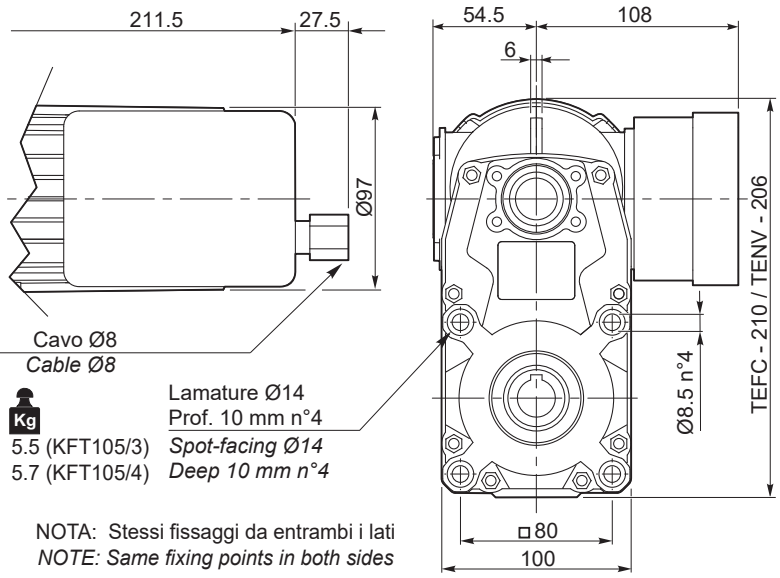
Dimensioni ***Dimensions***

KFT 105... 25W - 40W - 60W - 90W

KFT 105...1 Ph...TEFC

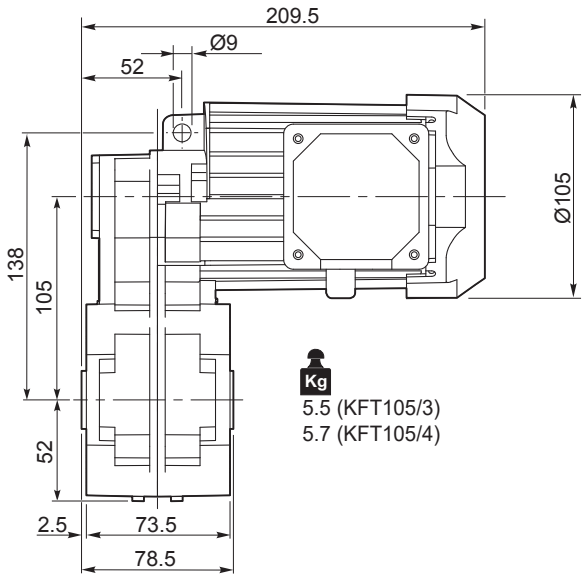


KFT 105...1 Ph...TENV

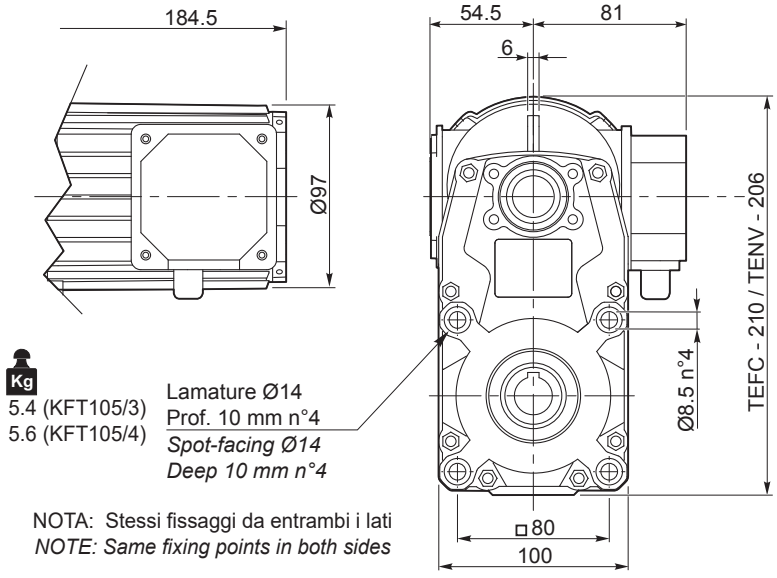


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

KFT 105...3 Ph... TEFC

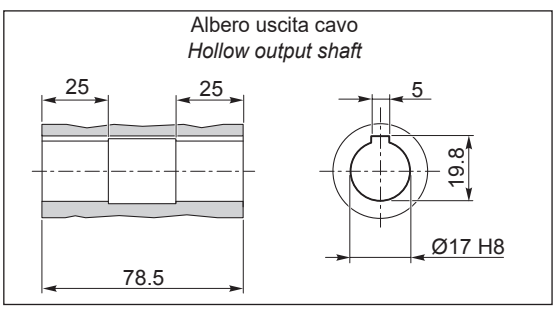


KFT 105...3 Ph... TENV

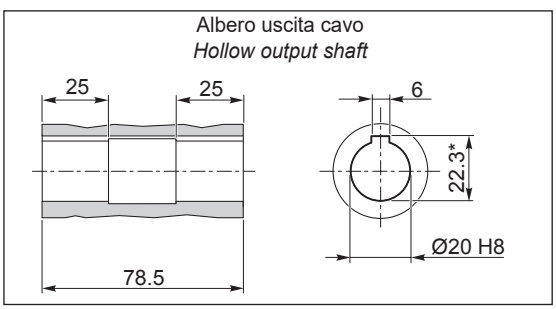


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

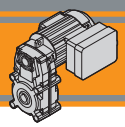
Ø17



Ø20

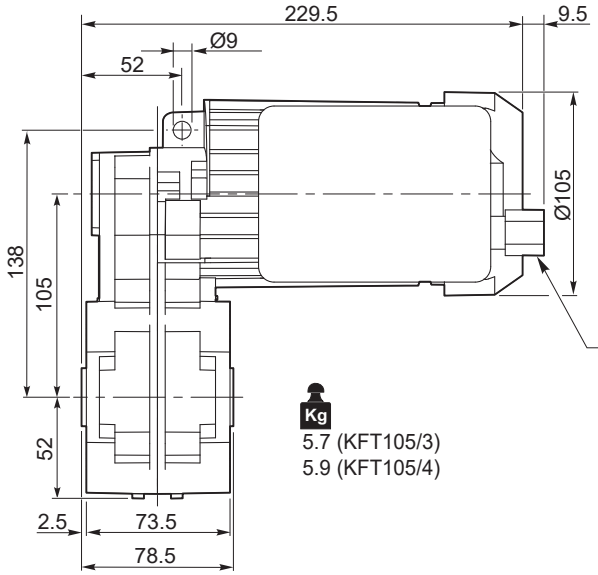


*Sede linguetta ribassata / *Special Keyway*

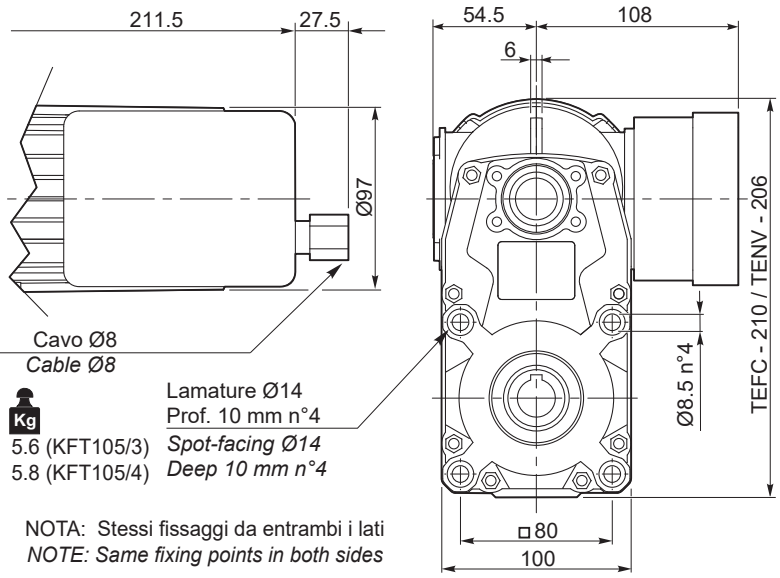


KFT 105... 120W

KFT 105...1 Ph... TEFC

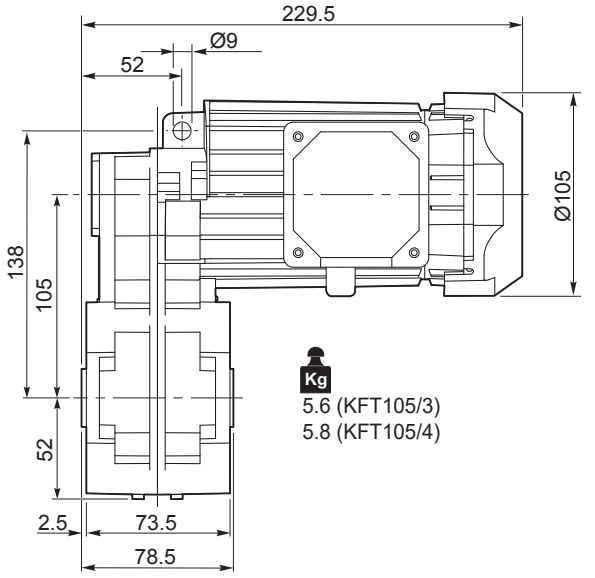


KFT 105...1 Ph...TENV

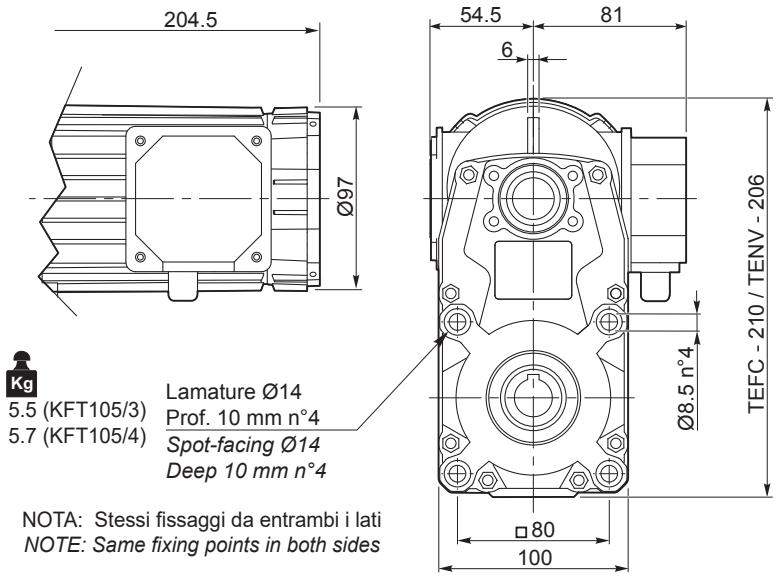


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

KFT 105...3 Ph... TEFC

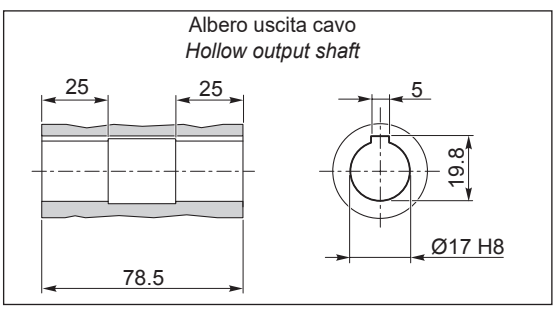


KFT 105...3 Ph... TENV

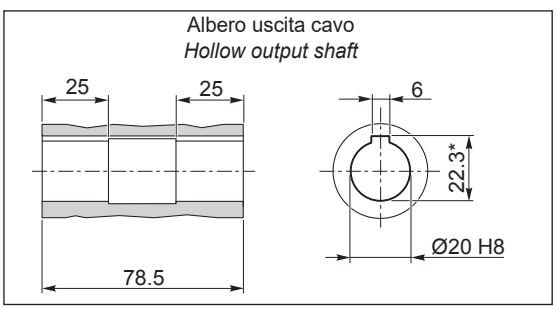


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

O17



O20



*Sede linguetta ribassata/ *Special Keyway*

Connesioni elettriche / *Electrical connections*

Versione 400 V 50 Hz trifase

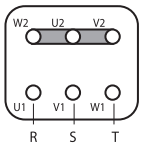
Morsettiera 6 perni

Misure esterne:
40 x 25 mm
Perni M4 x 12
Collegamento a stella per 400 V 50 Hz trifase

400 V 50 Hz three phase version

6-pin terminal strip

External measurements:
40 x 25 mm
Pins M4 x 12
Star connection for 400 V 50 Hz three phase

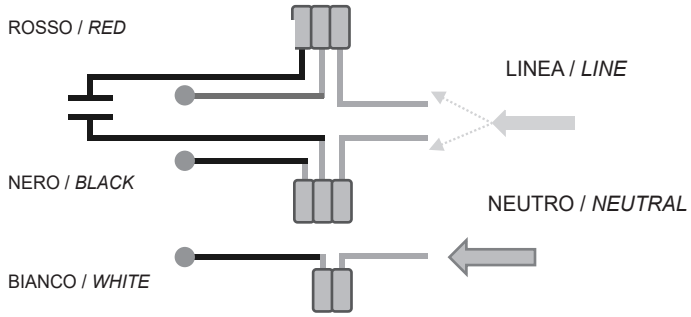


Versione 230 V 50 Hz monofase

230 V 50 Hz single-phase version

CONNETTORE WAGO / *WAGO CONNECTOR*

CONDENSATORE / *CAPACITOR*

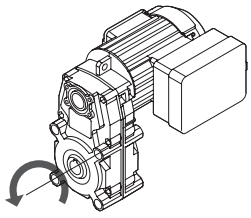


Linea = ROSSO
Rapporto = 20.57 ÷ 315.05

Linea = NERO
Rapporto = 368.19 ÷ 929.40

Line = RED
Ratio = 20.57 ÷ 315.05

Line = BLACK
Ratio = 368.19 to 929.40

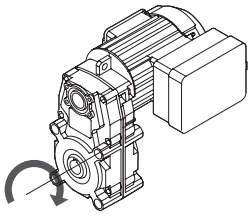


Linea = NERO
Rapporto = 20.57 ÷ 315.05

Linea = ROSSO
Rapporto = 368.19 ÷ 929.40

Line = BLACK
Ratio = 20.57 ÷ 315.05

Linea = RED
Ratio = 368.19 to 929.40



Connesioni elettriche

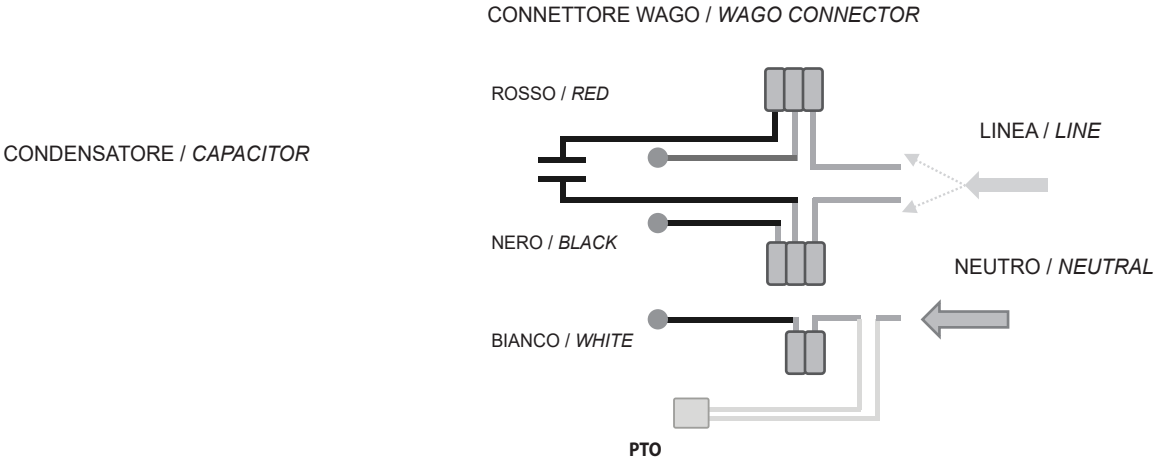
Electrical connections

Versione 230 V 50 Hz monofase

230 V 50 Hz single-phase version

Nota:
In caso serva collegare la PTO, per maggior protezione termica del motore, seguire lo schema sottostante

Note:
Should it be necessary to connect the PTO, for increased thermal protection of the motor, follow the diagram below



Collegamento al circuito di comando del motore a cura del cliente.
Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno.

Motor supply connection by the customer.
For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service.

Note/*Notes*

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